Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A process for making pentafluorosulfuranyl arylenes which comprises:

effecting dehydrohalogenation or dehydrogenation of a halogenated pentafluorosulfuranyl cycloaliphatic compound represented by either of the structures:

to form pentafluorosulfuranvi arylene compounds represented by either of the structures:

C D
$$R_2$$
 R_3 R_4 R_5 R_4 R_5 R_4 R_5 R_4 R_5 R_5

wherein R_{1-5} are H, halogen, e.g., Cl, or B_r ; C_{1-10} alkyl, C_{1-10} alkoxy, C_{1-10} thionyl, C_{1-10} alkyl ether, aryl and substituted aryl, thioether, sulfonyl, carboalkoxy, alkylamino, arylamino, alkylphosphoryl, alkylphosphonyl, aryphosphonyl arylphosphonyl, and arylphosphoryl etc and mixtures thereof and X is a halogen atom.

2. (Original) The process of Claim 1 wherein $H_{1-\delta}$ are H.

- 3 (Original) The process of Claim 2 wherein X is selected from the group consisting of Br and Cl or a mixture thereof.
- 4. (Original) The process of Claim 3 wherein compounds C and D are formed by effecting dehydrohalogenation of compounds represented by the structures A or B.
 - 5. (Original) The process of Claim 4 wherein X is bromine.
- 6. (Currently Amended) The process of Claim 5 wherein dehydrohalogenation is effected by reaction of compounds represented by the structures represented by the etructures A and B with powdered-sodium hydroxide.
- 7. (Currently Amended) The process of Claim 1 wherein the halogenated pentafluorosulfuranyl <u>cycloaliphatic</u> compounds for forming the pentafluorosulfuranyl arylenes are formed by a two step process which comprises:
 - (a) reacting SF₅X with a compound represented by either of the structures:

$$E$$
 R_2
 R_3
 R_4
 R_5
 R_6
 R_7
 R_8
 R_8
 R_8
 R_8

leading to the formation of compounds represented by either of the structures:

$$\begin{array}{c} & & & \\ & &$$

wherein R_{1-5} are H, halogen, e.g., Cl, or Br; C_{1-10} alkyl, C_{1-10} alkoxy, C_{1-10} thionyl., C_{1-10} alkyl ether, aryl and substituted aryl, thioether, sulfonyl, carboalkoxy, alkylamino, arylamino,

alkylphosphoryl, alkylphosphonyl, aryphosphonyl, arylphosphonyl, and arylphosphoryl etc and mixtures thereof and X is Br or Cl.

and then,

- (b) halogenating the thus formed compounds represented by the structures I and J produced in step (a) by reaction with Cl₂, B₂, or I₂ to form the halogenated pentafluorosulfuranyl cycloaliphatic compounds represented by the structures A and B.
 - 8. (Original) The process of Claim 7 wherein R₁₋₅ are H.
- 9. (Original) The process of Claim 8 wherein step (a) is carried out using SF_5Br as the reactant.
- 10. (Original) The process of Claim 9 wherein a free radical initiator is used to catalyze the reaction of SF_sBr with compound represented by the structures E or F.
- 11. (Original) The process of Claim 10 wherein the free radical initiator is triethyl borane.
- 12. (Original) The process of Claim 11 wherein halogenation in step (b) is carried out using Br_2 as the halogenating agent.
- 13. (Original) The process of Claim 12 wherein compounds represented by the structures C and D are formed by effecting dehydrohalogenation of compounds represented by the structures A and B by reaction with powdered sodium hydroxide.
- 14. (Currently Amended) The process of Claim 1 wherein the halogenated pentafluorosulfuranyl <u>cycloaliphatic</u> compounds for forming the pentafluorosulfuranyl arylenes are formed by a two step process which comprises:
 - (a) halogenating a compound represented by the structures:

Ε

$$R_2$$
 R_3
 R_4
 R_5
 R_4
 R_5

leading to the formation of compounds represented by the structures:

$$R_{3}$$
 R_{4}
 R_{5}
 R_{4}
 R_{5}
 R_{4}
 R_{5}

wherein R_{1-5} are H, halogen, e.g., Cl, er Br, C_{1-10} alkyl, C_{1-10} alkoxy, C_{1-10} thionyl, C_{1-10} alkyl ether, aryl and substituted aryl, thioether, sulfonyl, carboalkoxy, alkylamino, arylamino, alkylphosphoryl, alkylphosphonyl, aryphosphonyl, arylphosphonyl, and arylphosphoryl ete and mixtures thereof and X is Br or Cl.

and then,

- (b) reacting the thus formed compounds K and L produced in step (a) by reaction with SF_5X to produce compounds represented by the structures A or B.
 - 15. (Original) The process of Claim 14 wherein R₁₋₅ are H and X is Br.
- 16. (Original) The process of Claim 15 wherein step (a) is carried out using SF_5Br as the reactant and a free radical initiator is used to catalyze the reaction of SF_5Br with the compounds represented by the structures K or L.
- 17. (Original) The process of Claim 16 wherein the free radical initiator is triethyl borane.

18. (Original) The process of Claim 16 wherein C and D are formed by effecting dehydrohalogenation of compounds represented by the structures K and L by reaction with powdered sodium hydroxide.